mild climate at some time in the past. Armstrong (1973) stated that the lead ratios in certain coals were richer in radiogenic lead than the average composition of the continental crust and he offered an interpretation of the data based on the Flood. Wiant (1974) used the available figures of the estimated coal deposits around the world and concluded that if one assumed that the pre-Flood earth was as productive as our tropical forests of today and there was more land mass before the Flood than there is now, all of the coal beds could be accounted for by the destruction of one biomass. See Woodmorrappe (1986) for a more complete analysis of the carbon available on the anteduluvian earth for coal formation. Connor (1977) discussed radiohalos in coalified wood as evidence for a young earth. Gentry et al. (1976) suggested that the presence of radiohalos in coalified wood indicated that the time required for coalification could be quite short. Johnson (1974, p. 109) noted some recent experiments that could be used to indicate that coal formation during and after the Flood was quite rapid.

References

CRSQ — Creation Research Society Quarterly.

Armstrong, H. L. 1972. Allochthonous coal considered. *CRSQ* 9:74-75.

_____ 1973. Lead ratios and the age of coal. *CRSQ* 9:242, 244.

Austin, S. A. 1979. Depositional environment of the Kentucky no. 12 coal bed (middle Pennsylvanian) of western Kentucky, with special reference to the origin of coal lithotypes. Ph.D. Thesis. The Pennsylvania State University. University Park, PA.

_____ 1984. Catastrophes in earth history. Institute for Creation Research. El Cajon, CA.

_____ 1986. Mount St. Helens and catastrophism. Proceedings of the First International Conference on Creationism, August 4-9. Volume I. Creation Science Fellowship. Pittsburgh. pp. 3-9.

Burdick, C. L. 1970. The structure and fabric of geology. *CRSQ* 7:142-147.

Clark, H. W. 1971. Paleoecology and the Flood. *CRSQ* 8:19-23.

Coffin, H. G. 1969. Research on the classic Joggins petrified trees. *CRSQ* 6:35-44.

Connor, S. J. 1977. Radiohalos in coalified wood: new evidence for a young earth. *CRSQ* 14:101-102.

Frair, W. 1969. The human skull composed of coal. *CRSQ* 5:133-135.

Gentry, R. V., W. H. Christie, D. H. Smith, J. F. Emery, S. A. Reynolds, R. Walker, S. S. Cristy and P. A. Gentry. 1976. Radiohalos in coalified wood: new evidence relating to the time of uranium introduction and coalification. *Science* 194:315-318.

Johnson, G. L. 1974. The Genesis Flood and the geological record. *CRSQ* 11:108-110.

McCallie, S. W. 1903. An erratic bowlder from the coal measures of Tennessee. *The American Geologist* 31(1):46-47.

Mulfinger, G. 1973. A unique creationist exhibit. *CRSQ* 10:62-68.

_____ and D. E. Snyder. 1979. Earth science for Christian schools. Bob Jones University Press. Greenville, SC.

Peters, W. G. 1971. The cyclical black shales. *CRSQ* 7:193-200.

_____ 1973. Field evidence of rapid sedimentation. *CRSQ* 10:89-96.

Rusch, Sr., W. H. 1971. Human footprints in rocks. *CRSQ* 7:201-213.

Stutzer, O. 1940. Geology of coal (translated by Noe, A. C.). University of Chicago Press. Chicago.

von Fange, E. A. 1974. Time upside down. *CRSQ* 11:13-27.

Whitcomb, Jr., J. C. and H. M. Morris. 1963. The Genesis Flood. Presbyterian and Reformed. Philadelphia.

Wiant, Jr., H. V. 1974. A quantitative comparison of the carbon in the biomass and coal beds of the world. *CRSQ* 11:142.

_____ 1976. A curosity from coal. *CRSQ* 13:74.

Woodmorappe, J. 1986. The antediluvian biosphere and its capacity of supplying the entire fossil record. Proceedings of the First International Conference on Creationism, August 4-9. Volume II. Creation Science Fellowship. Pittsburgh. pp. 205-218.

INDEX TO VOLUME 27 OF THE CREATION RESEARCH SOCIETY QUARTERLY

A

A Changing Variables Model for the Speed of Light by Cam de Pierre, 71

A Neurochemical Creationist Concept Based on *In Vitro* Studies of Brain mRNAs of Three Lumber Vole Species: *Clethrionomys glareolus*, *Clethrionomys frater* and *Clethrionomys gapperi*, by Dimitrij A. Kuznetsov, 128

A Preliminary Report on the Geology of Southwestern Virginia by Eugene F. Chaffin, 18

An Introduction to the Possible Role of Cavitation in the Erosion of Water Channels by Edmond W. Holroyd, III, 23

An Early Christian View of Genesis One by David Watson, 138

B

Baumgardner, John R.
The Imperative of Non-Stationary Natural Law in Relation to Noah's Flood, 98

Brown, R. H.
Radiohalo Evidence Regarding Change in Natural Process Rates, 100

Byl, John
On the Viability of Variable Constants, 68

C

Chaffin, Eugene F.
The Difficulty in Obtaining Realistic Conclusions about Variable Constants, 6
A Preliminary Report on the Geology of Southwest Virginia, 18

Changing Constants and the Cosmos by Glen R. Morton, 60

Critique of "Radiohalo Evidence Regarding Change in Natural Process Rates" by Robert V. Gentry, 103

Crofut, Bill and Raymond M. Seaman
Evolution: A Cosmic Numbers Game, 59
Evolution: Factual or Fanciful?, 59
Evolution: The Bitter Fruit of Dogmatism, 136
Evolutionism: A Charge Looks Back, 37
Evolutionism: A View through Rose-Colored Blinders, 35
Evolutionism: Bones and Stones of Contention, 35
Evolutionism: Genetic 'Egg'-Sasperation, 57
Evolutionist: Contradict Thy Ownself, 56

D

Davidheiser, Bolton
What is a Species?, 149

Dedication to George F. Howe by Wilbert Rusch, Sr., 86

Dedication to Paul A. Zimmerman by Wilbert Rusch, Sr., 122

de Pierre, Cam
A Changing Variables Model for the Speed of Light, 71

E

Euphorbia Antisyphilitica (The Candelilla Plant) Demonstrates Providence, Design and Typology in Creation by George F. Howe and Emmett L. Williams, 86

Evolution: A Cosmic Numbers Game by Bill Crofut and Raymond M. Seaman, 59

Evolution: Factual or Fanciful? by Bill Crofut and Raymond M. Seaman, 59

Evolution: The Bitter Fruit of Dogmatism by Bill Crofut and Raymond M. Seaman, 136

Evolutionism: A Charge Looks Back by Bill Crofut and Raymond M. Seaman, 37

Evolutionism: A View Through Rose-Colored Blinders by Bill Crofut and Raymond M. Seaman, 35

Evolutionism: Bones and Stones of Contention by Bill Crofut and Raymond M. Seaman, 35

Evolutionism: Genetic 'Egg'-Sasperation by Bill Crofut and Raymond M. Seaman, 57

Evolutionist: Contradict Thy Ownself by Bill Crofut and Raymond M. Seaman, 56

Evolutionist: Friend or Foe? by Bill Crofut and Raymond M. Seaman, 94

G

Gentet, Robert E.
Geological Evidence of Early Man, 122

Gentry, Robert V.
Critique of "Radiohalo Evidence Regarding Change in Natural Process Rates," 103

Geological Evidence of Early Man by Robert E. Gentet, 122

Good News from Neptune: The Voyager 2 Magnetic Measurements by D. Russell Humphreys, 15

H

Hamilton, H. S.
The Eye: By Chance or Intelligence, 141

Herrmann, Robert A.
World-Views and the Metamorphic Model: Their Relation to the Concept of Variable Constants, 10

Holroyd, III, Edmond W.
An Introduction to the Possible Role of Cavitation in the Erosion of Water Channels, 23
Some Simulations of the Possible Role of Cavitation in Catastrophic Floods, 49

Howe, George F. and Emmett L. Williams
Euphorbia Antisyphilitica (The Candelilla Plant) Demonstrates Providence, Design and Typology in Creation, 86

Humphreys, D. Russell
Good News from Neptune: The Voyager 2 Magnetic Measurements, 15

I

Index to Volume 26 of the *Creation Research Society Quarterly*, 33

Is More Than Gene Action Required to Account for Variation? by Lester J. McCann, 151

J

Jonathan Edwards–Scientist by Emmett L. Williams, 36

K

Kaufmann, David A.
Minutes of 1990 Creation Research Society Board of Directors Meeting, 96

Keyword Index to Volume 26 by Glen W. Wolfrom, 140

Kuznetsov, Dimitrij A.
A Neurochemical Creationist Concept Based on *In Vitro* Studies of Brain mRNAs of Three Lumber Vole Species: *Clethrionomys glareolus, Clethrionomys frater* and *Clethrionomys gapperi*, 128

M

McCann, Lester J.
Is More Than Gene Action Required to Account for Variation?, 151

Minutes of 1990 Creation Research Society Board of Directors Meeting by David A. Kaufmann, 96

Morton, Glenn R.
Changing Constants and the Cosmos, 60

O

On the Viability of Variable Constants by John Byl, 68

P

Possible Variability in Living Organisms—A Review of *CRSQ* Writing by Emmett L. Williams, 144

R

Radiohalo Evidence Regarding Change in Natural Process Rates by R. H. Brown, 100

Rapid Erosion by Emmett L. Williams, 96

Reprinted *CRSQ* Volume 1 by Emmett L. Williams, 57

Reprinted *CRSQ* Volume 2 by Emmett L. Williams, 93

Reprinted *CRSQ* Volume 3 by Emmett L. Williams, 136

Rusch, Sr., Wilbert
Dedication to George F. Howe, 86
Dedication to Paul A. Zimmermann, 122

S

Some Simulations of the Possible Role of Cavitation in Catastrophic Floods by Edmond W. Holroyd, III, 49

T

The Difficulty in Obtaining Realistic Conclusions about Variable "Constants" by Eugene F. Chaffin, 6

The Eye: By Chance or Intelligence by H. S. Hamilton, 141

The Imperative of Non-Stationary Natural Law in Relation to Noah's Flood by John R. Baumgardner, 98

The Threat from Theistic Evolution by Paul A. Zimmerman, 91

W

Watson, David
An Early Christian View of Genesis One, 138

What is a Species? by Bolton Davidheiser, 149

Williams, Emmett L.
Jonathan Edward—Scientist, 36
Possible Variability in Living Organisms—A Review of *CRSQ* Writings, 144
Rapid Erosion, 96
Reprinted *CRSQ* Volume 1, 57

Reprinted *CRSQ* Volume 2, 93
Reprinted *CRSQ* Volume 3, 136
Wolfrom, Glen W.
Keyword Index to Volume 26, 140
"You Are What You Eat," 36
World-Views and the Metamorphic Model: Their Relation to the Concept of Variable Constants by Robert A. Herrmann, 10

Y

"You Are What You Eat" by Glen W. Wolfrom, 36

Z

Zimmermann, Paul A.
The Threat from Theistic Evolution, 91

ARTICLE AND BOOK REVIEWS

Biblical Myths and Mysteries reviewed by Clifford L. Lillo, 157
Charles Darwin's Religious Views: From Creationist to Evolutionist reviewed by Jerry Bergman, 154
Creation or Evolution: Correspondence on the Current Controversy reviewed by Wilbert H. Rusch, Sr., 154
Creationism and the Dinosaur Boom reviewed by Paul A. Garner, 105
From Eternity to Eternity reviewed by Clifford L. Lillo, 38
How Life Began reviewed by David and Kenneth Rodabaugh, 107
In the Beginning reviewed by Don B. DeYoung, 156
Of Pandas and People: The Central Question of Biological Origins reviewed by Trevor J. Major, 38
Science, Scripture and Salvation reviewed by Emmett L. Williams, 110
The Life and Death of Charles Darwin reviewed by John W. Klotz, 39
The Long War Against God reviewed by Clifford L. Lillo, 73
The Long War Against God reviewed by Daniel P. O'Deens, 111
The Origin of Species Revisited, Volumes I and II reviewed by Wilbert H. Rusch, Sr., 109
Twentieth Century in Crisis: Foundations of Totalitarianism reviewed by Don B. DeYoung, 73
Wonderful Life: The Burgess Shale and the Nature of History reviewed by Michael J. Oard, 74
Wonderfully Made reviewed by David A. Kaufmann, 109

LETTERS TO THE EDITOR

Article by John Byl by R. H. Brown, 157
Australian Creationist Journal by Andrew Snelling, 158
Definition of Science by Lawrence and Felicia McGhee, 40
Ellesmere Island: Evidence for Catastrophism? by Timothy L. Munyon, 42
Genesis and Genetics Continued by Raymond Bray, 113
Ichnofossils Exposed to the Elements by Emmett L. Williams, 76
International Conference on Creationism by Robert E. Walsh, 42
Moon Dust by George Matzko, 77
Reply to McGhee by Robert E. Kofahl, 41
Reply to Williams by William Waisgerber, 77
Response to Bray by Vernon A. Raaflaub, 114
St. Augustine and Genesis by David C. C. Watson, 78
Statistical Corrections by Alan Montgomery, 114
Young Universe by Michael Shaver, 113

DOES THE NEO-DARWINIAN PRINCIPLE OF HOMOLOGY WORK AT THE GENOME LEVEL?

DIMITRIJ A. KOUZNETSOV* AND ANDREY A. IVANOV**

Received 12 October 1990; Revised 30 November 1990

Abstract

*Brain tissues from wild forest mice (**Clethrionomys**) of two similar species were used for isolation and purification of highly homologous polyribosomal poly(A)$^+$ mRNA sequences by molecular-hybridization with depleted bacterial plasmid DNAs. The isolated highly homologous populations of mRNAs from both organisms were translated **in vitro** using cell-free protein synthesis systems. Resulting polypeptide chains were analyzed by slab-gel electrophoresis to test the extent of homology between proteins encoded by the homologous mRNAs. Results indicate a lack of correlation between mRNA homology and protein homology..*

Introduction

Homology among sequences of so-called "informational biopolymers" (DNA and mRNA) are treated as ideal criteria for an estimation of phylogenetic relationship in most recent biochemical and biophysical studies. These studies have included a large scale of living systems from viruses (Davison and Taylor, 1987) to primates including man (Walker and Gedamu, 1990). But interpretation of these data, including the efficiency of DNA-DNA and DNA-RNA hybridization methodology, involve difficult theoretical and technical problems which lead to many misunderstandings (Britten, 1989; Marks et al., 1989; Hasegawa et al., 1989). Therefore, questions about the scientific significance of DNA-DNA and DNA-RNA homology as background for evolutionary conclusions must be investigated both theoretically and empirically. For these reasons we have investigated correlations between the extent of eucaryotic mRNA homology and the extent of homology between polypeptide chains encoded by these mRNA sequences.

*Dimitrij A. Kouznetsov, Ph.D. and **Andrey A. Ivanov, M.S., The Protestant, P.O. Box 83, Moscow 123290, USSR.